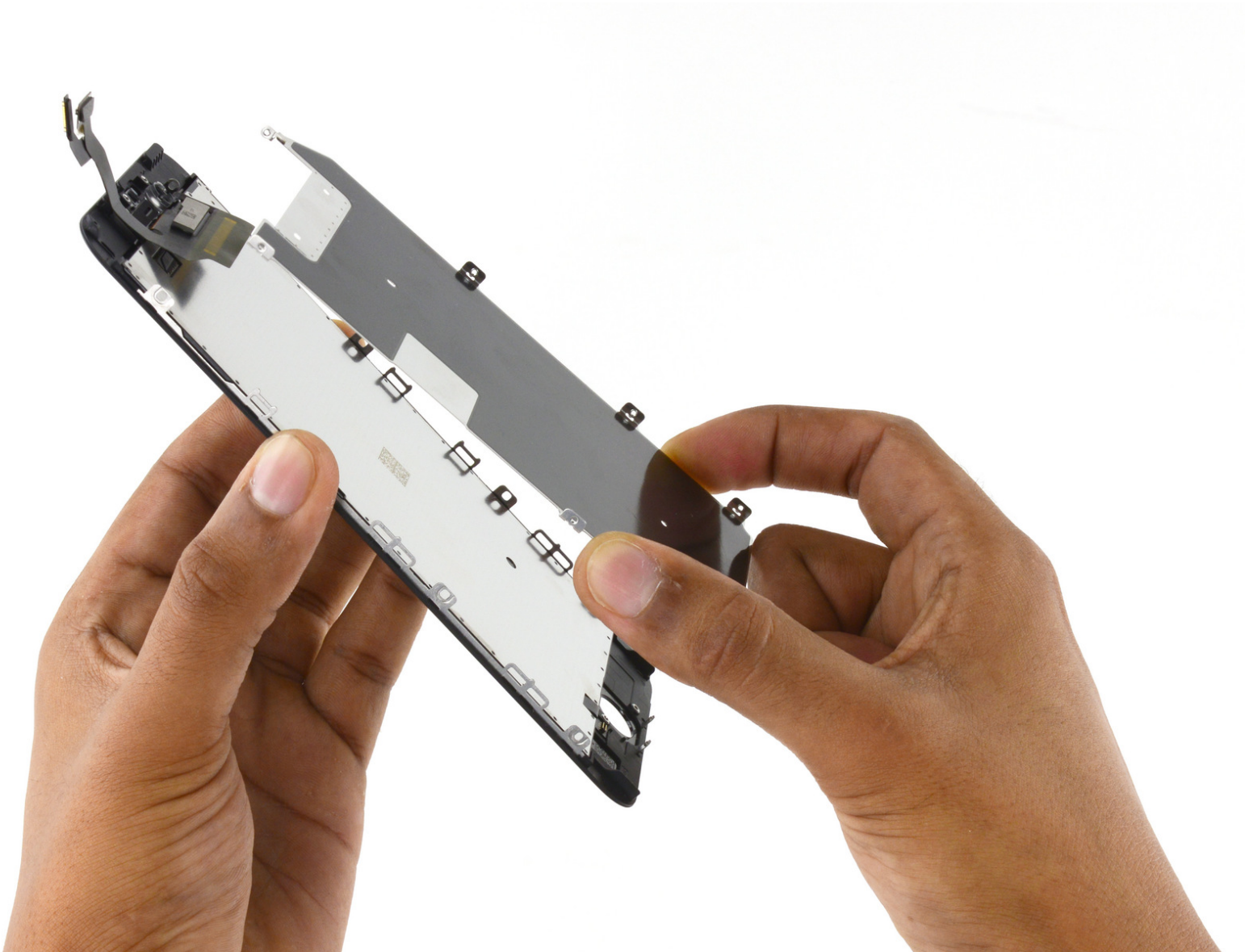




# iPhone 6s Plus Display EMI Shield Replacement

Replace the EMI shield over the iPhone 6s Plus display assembly.

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## INTRODUCTION

Prerequisite for replacing an iPhone 6s Plus display assembly.

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### TOOLS:

- [P2 Pentalobe Screwdriver iPhone](#) (1)
  - [Suction Handle](#) (1)
  - [Spudger](#) (1)
  - [Tweezers](#) (1)
  - [Phillips #000 Screwdriver](#) (1)
  - [iFixit Opening Tools](#) (1)
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## Step 1 — Pentalobe Screws




 Before disassembling your iPhone, discharge the battery below 25%. A charged lithium-ion battery can catch fire and/or explode if accidentally punctured.

- Power off your iPhone before beginning disassembly.
- Remove the two 3.4 mm Pentalobe screws on either side of the Lightning port.

## Step 2 — Opening Procedure



 Opening the display on the 6s Plus separates a thin strip of adhesive around the perimeter of the display. If you prefer to replace the adhesive, have a set of new adhesive strips ready before you continue. It's possible to complete the repair without replacing the adhesive, and you probably won't notice any difference in functionality.

- Apply a suction cup to the lower left corner of the display assembly.

### Step 3



- Pull up on the suction cup with firm, constant pressure to create a slight gap between the front panel and rear case.

⚠ Pulling too hard may damage the display assembly. Apply just enough pressure to create a small gap between the display assembly and the rear case.

### Step 4



- The safest place to pry from is the notch in the front panel above the headphone jack.
- While still maintaining pressure on the suction cup, insert the flat tip of a spudger into the gap, directly above the headphone jack.



## Step 5



- Twist the spudger to widen the gap between the front panel and the rear case.

## Step 6



- While firmly pulling up on the suction cup, slide the edge of the spudger under the bottom left corner of the display.

## Step 7



- Slide the tip of the spudger up the left side of the phone, between the front panel and the rear case.

## Step 8




- Insert the flat tip of the spudger under the right edge of the display.
- Slide the spudger up the right side.

## Step 9



- Use a plastic opening tool to hold down the rear case while pulling up the suction cup to open the phone.

 Do **not** remove the display completely, or you will damage the data cables connecting the display near the top edge of the iPhone.

## Step 10





- Pull up on the small nub on the suction cup to remove it from the display.



## Step 11



- Gently grasp the display assembly and lift it up to open the phone, using the clips at the top of the front panel as a hinge.
  - Open the display to about a 90° angle, and lean it against something to keep it propped up while you're working on the phone.
-  Don't open the display more than 90°—it is still connected to the top of the phone by the display, digitizer, and front camera cables which can tear easily.
- Add a rubber band to keep the display securely in place while you work. This prevents undue strain on the display cables.
-  In a pinch, you can use an unopened canned beverage to support the display.



## Step 12 — Battery Connector



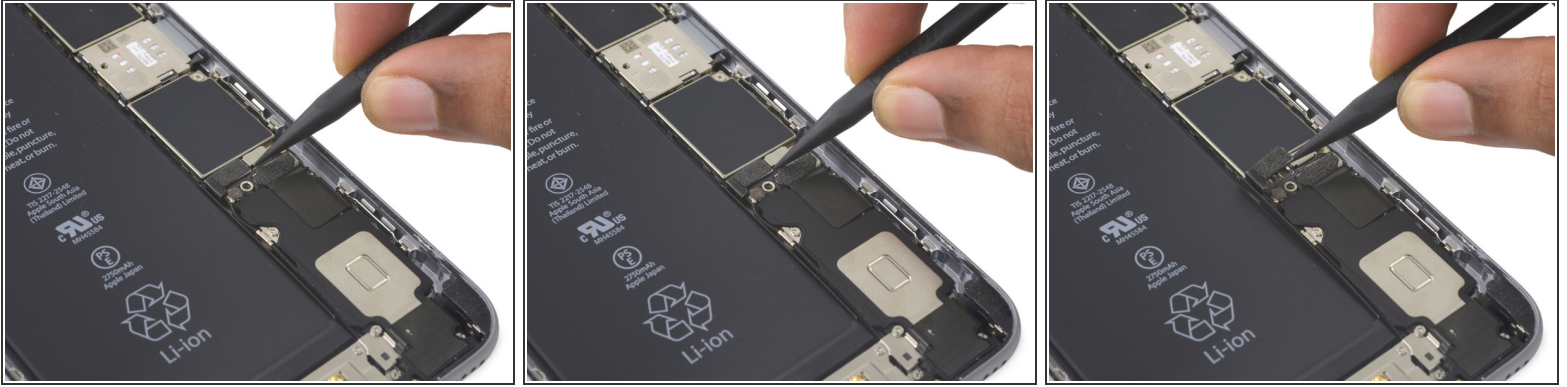
- Remove the following Phillips screws securing the battery connector bracket to the logic board:
  - One 2.9 mm screw
  - One 2.3 mm screw

## Step 13



- Remove the battery connector bracket.

## Step 14



- Use the pointed tip of the spudger to disconnect the battery connector from the logic board.

## Step 15



- Bend the connector back to ensure it doesn't make contact and power the iPhone on while you're working on it.



## Step 16 — Display Assembly



- Remove the following Phillips screws:
  - Three 1.3 mm screws
  - One 1.6 mm screw
  - One 3.0 mm screw
- ☑ During reassembly, it's critical to place this 3.0 mm screw in the top-right corner of the bracket. Placing it anywhere else may damage the logic board.

## Step 17



- Remove the display cable bracket.

## Step 18



⚠ Be careful to only pry up on the connector itself and not the socket on the logic board.

- Use a plastic opening tool to disconnect the front-facing camera and sensor cable connector.

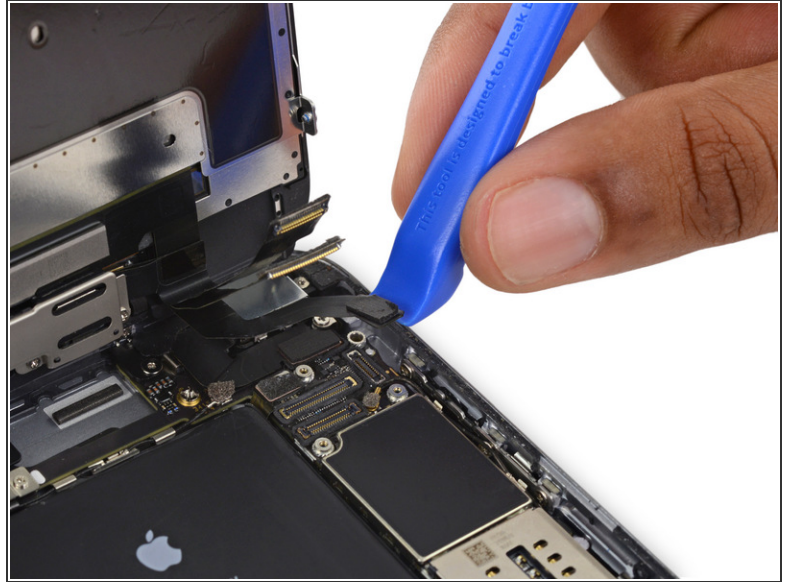
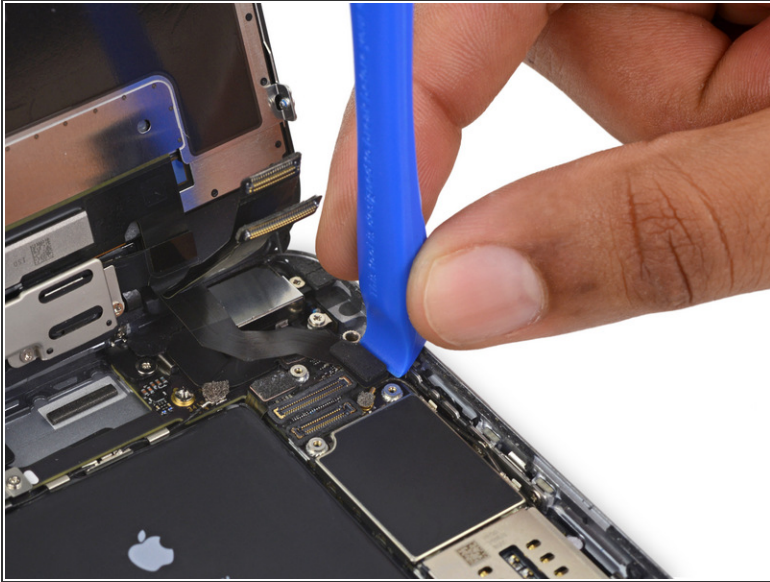


## Step 19



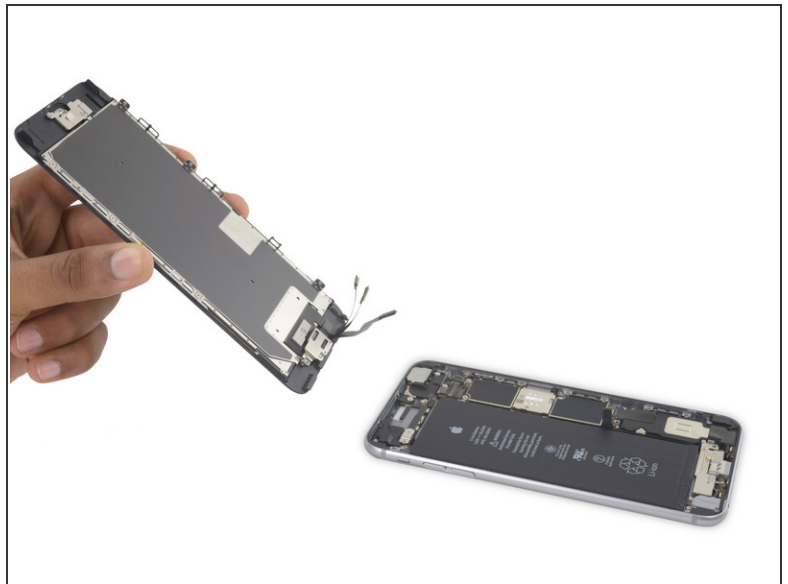
- Use a plastic opening tool to disconnect the digitizer cable by prying it straight up from its socket on the logic board.
- ☑ When reconnecting the digitizer cable, **do not press the center of the connector**. Press one end of the connector, then press the opposite end. Pressing in the center of the connector can bend the component and cause digitizer damage.

## Step 20



- Use a plastic opening tool to disconnect the display data cable by prying it straight up from its socket on the logic board.

## Step 21



- Remove the display assembly.
- ☑ During reassembly, pause here if you wish to [replace the adhesive around the edges of the display](#).

## Step 22 — Home Button Assembly



- Remove the two 1.9 mm Phillips screws securing the home button bracket.

## Step 23



- Remove the home button bracket.

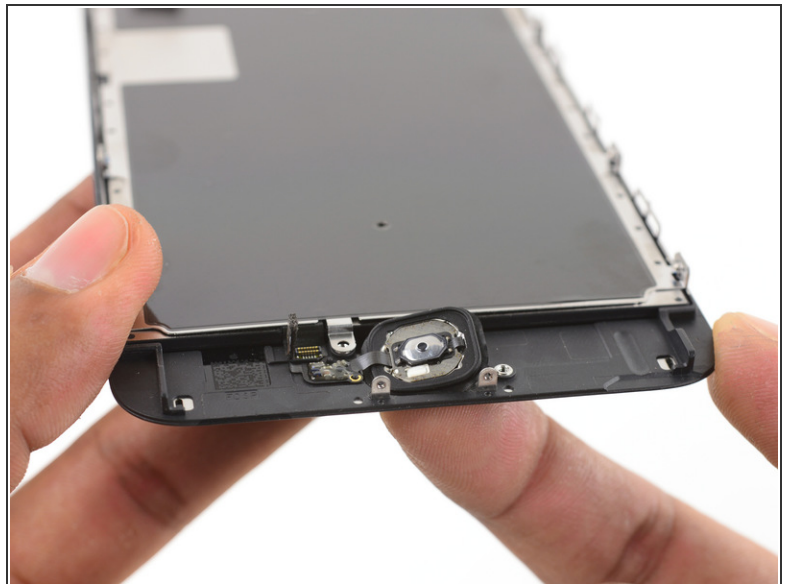



## Step 24



- Use the pointed tip of a spudger to disconnect the home button cable from its connector on the display assembly.

## Step 25



- Using your fingertip, gently press up on the home button from the front side of the display assembly to slowly separate the home button's rubber gasket from the front panel.  
 The gasket is very thin and will tear easily. Apply steady pressure and give it time to separate.



## Step 26



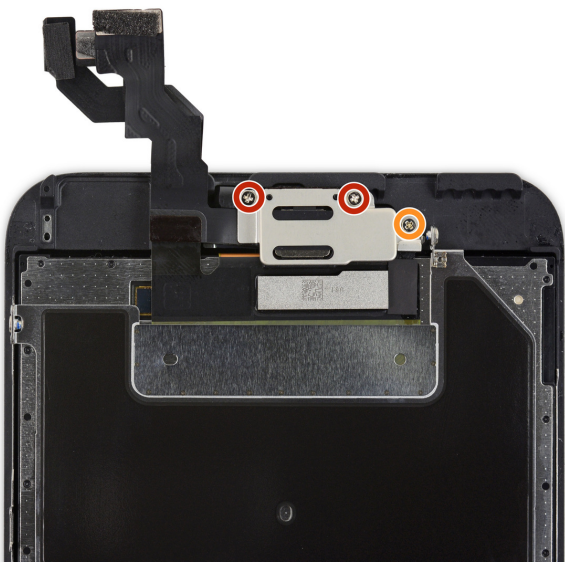
- Use the pointed end of a spudger to pry the lightly-adhered home button flex cable off the display assembly.

## Step 27



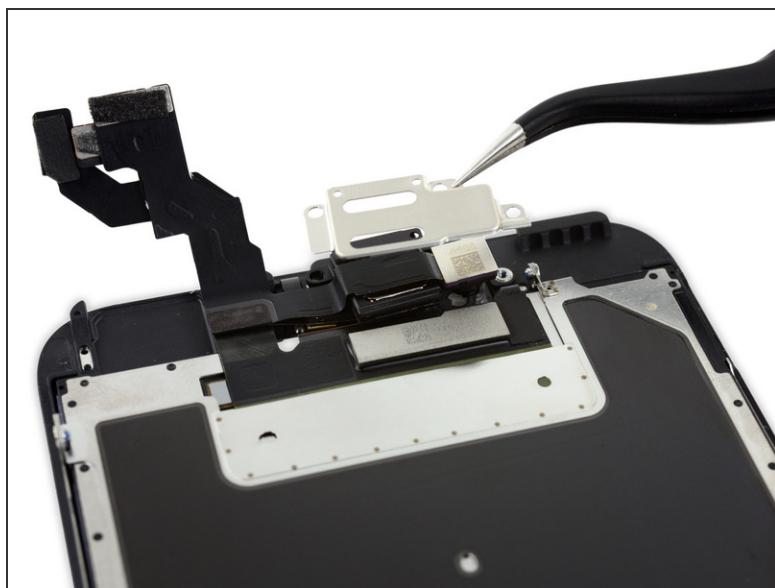
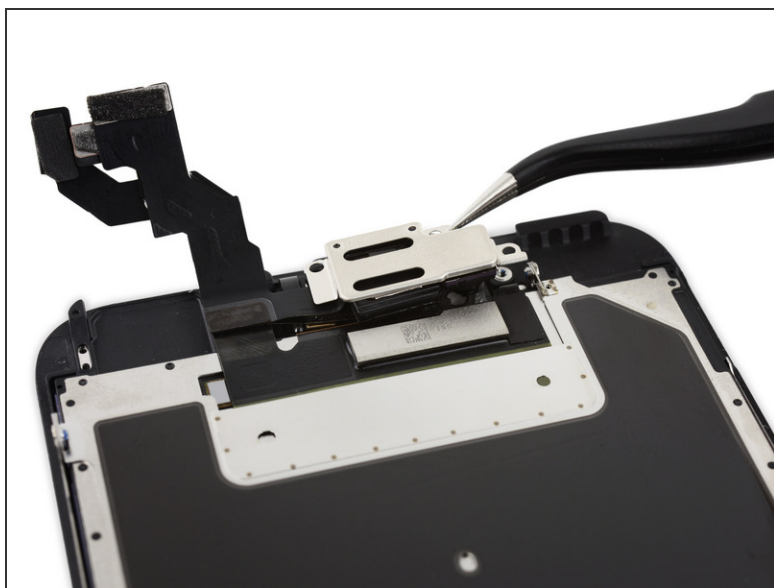
- Remove the home button assembly.

## Step 28 — Earpiece Speaker



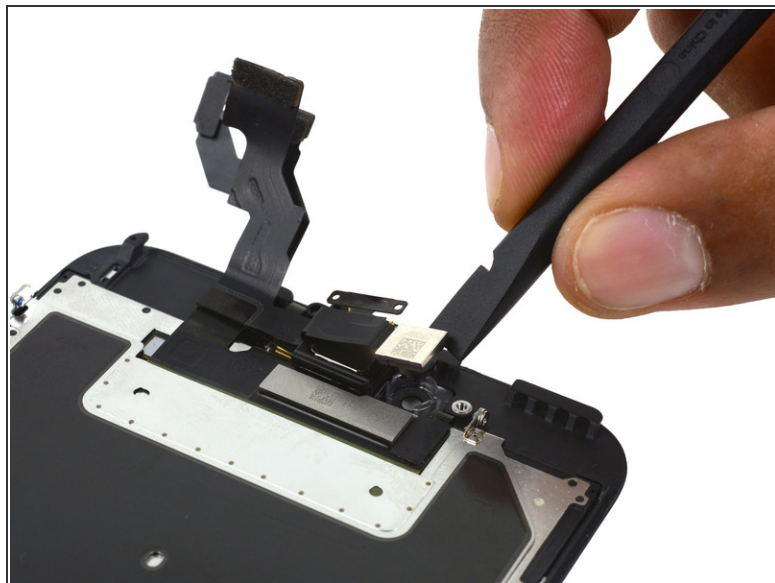
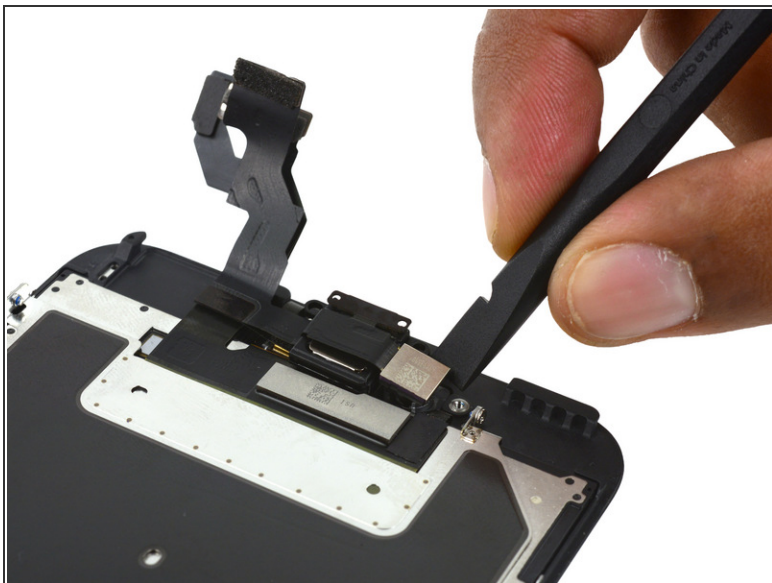
- Remove the following three Phillips screws:
  - Two 2.7 mm screws
  - One 1.4 mm screw

## Step 29



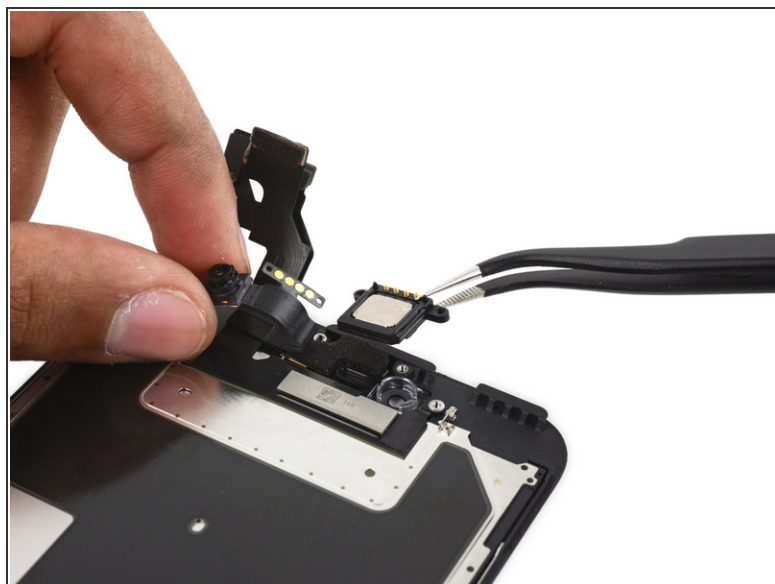
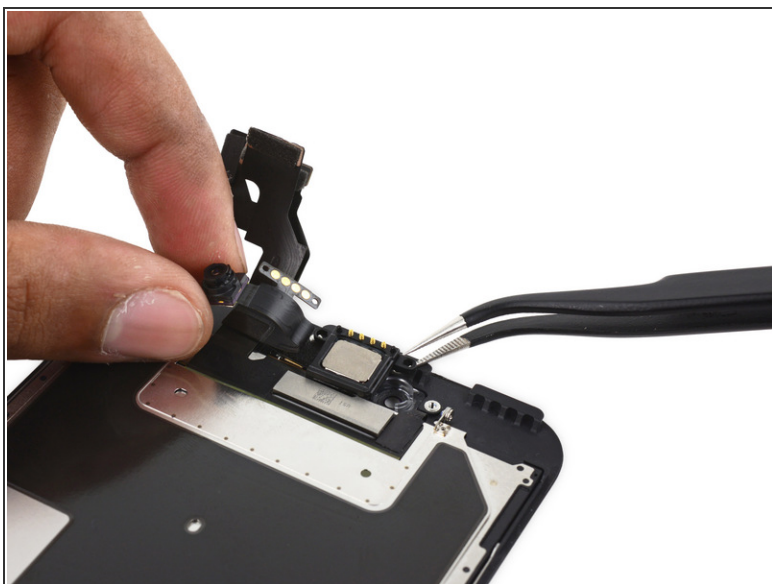
- Remove the earpiece speaker bracket.

## Step 30



- Use the flat end of a spudger to lift the FaceTime camera out of its housing.

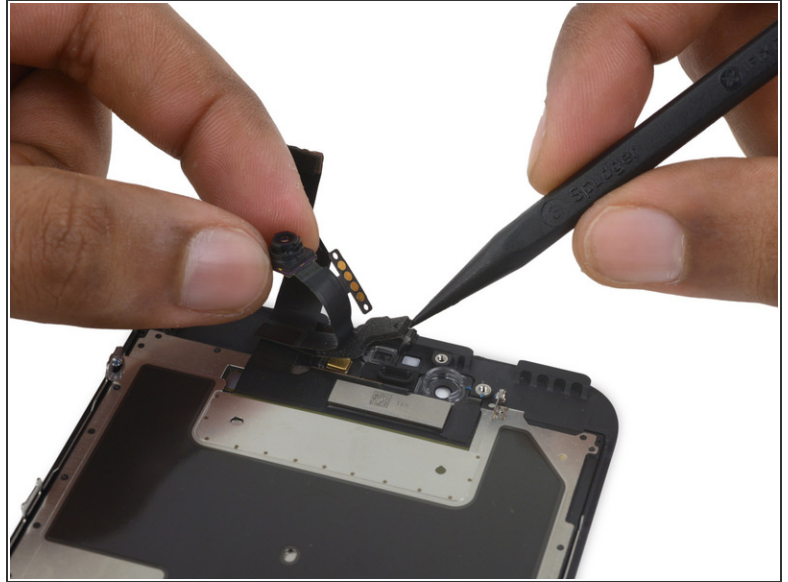
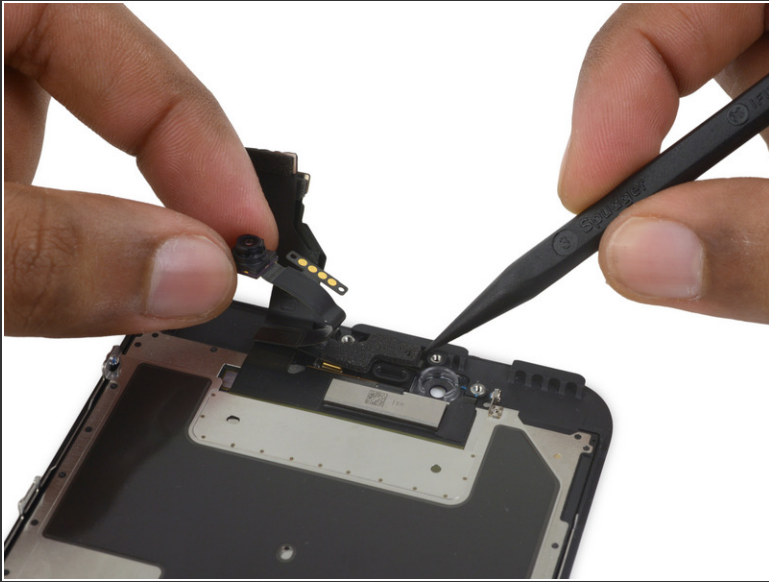
## Step 31



- Pull the FaceTime camera back and remove the earpiece speaker.

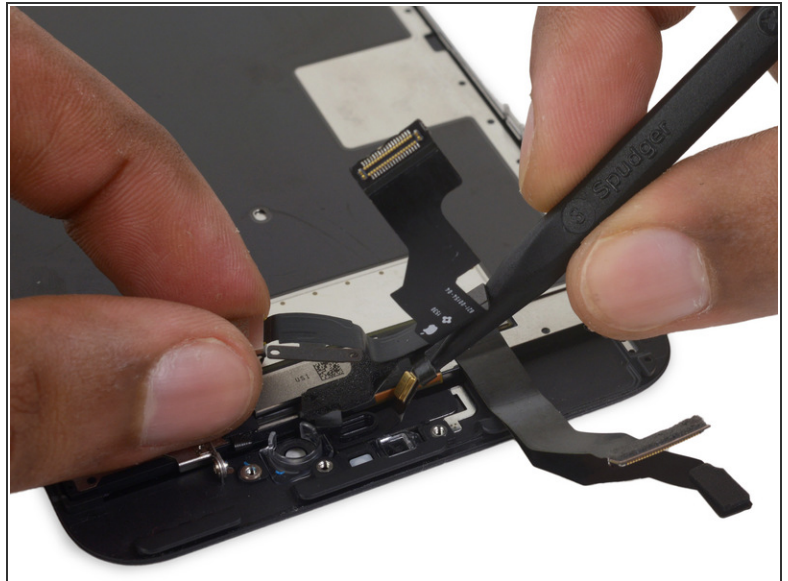


## Step 32 — FaceTime Camera and Sensor Assembly



- Use the pointed tip of a spudger to lift the ambient light sensor from its housing in the front panel.

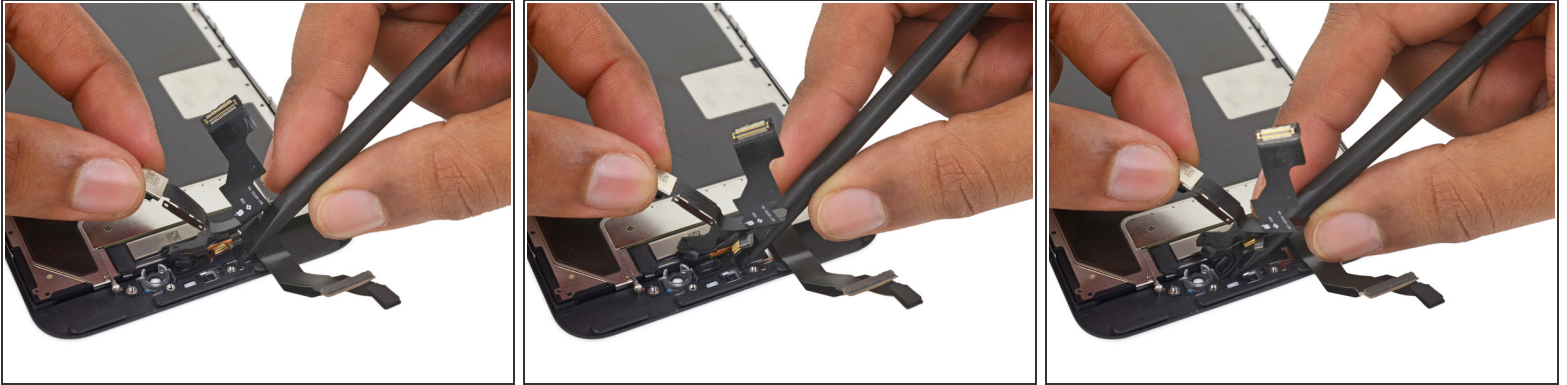
## Step 33



- Insert the pointed tip of a spudger between the microphone flex cable and the front panel to break the adhesive holding it in place.

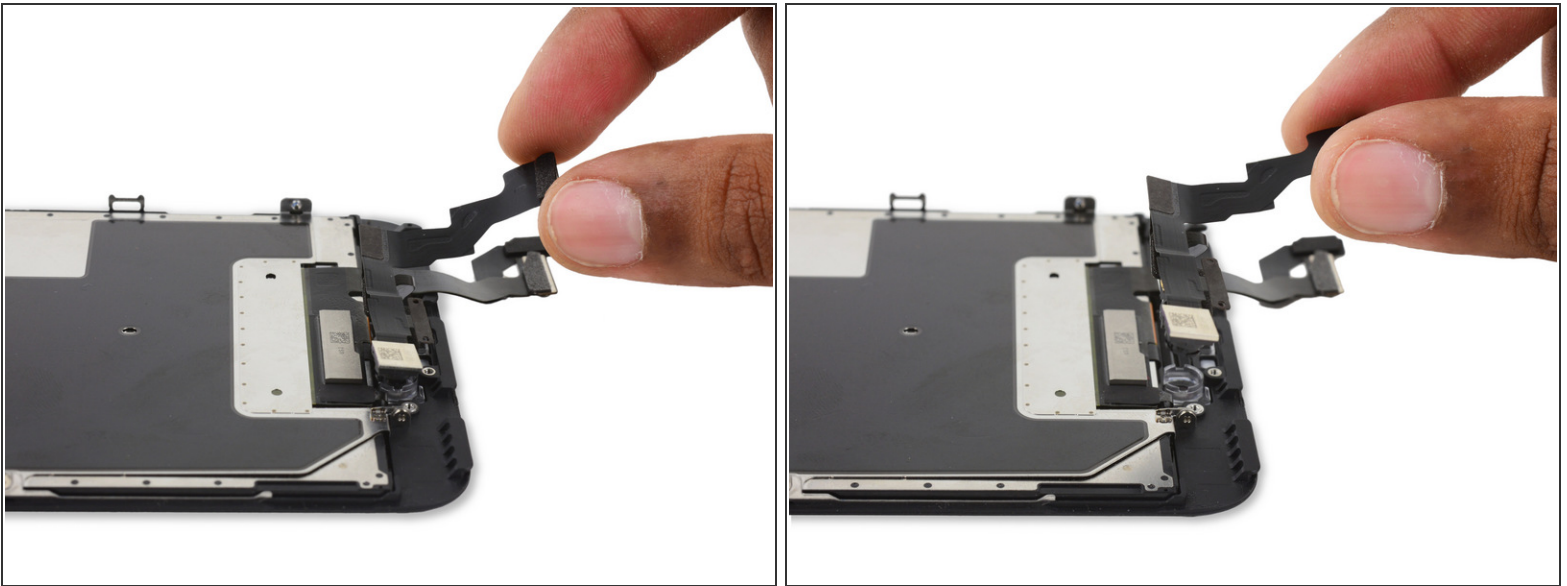


## Step 34



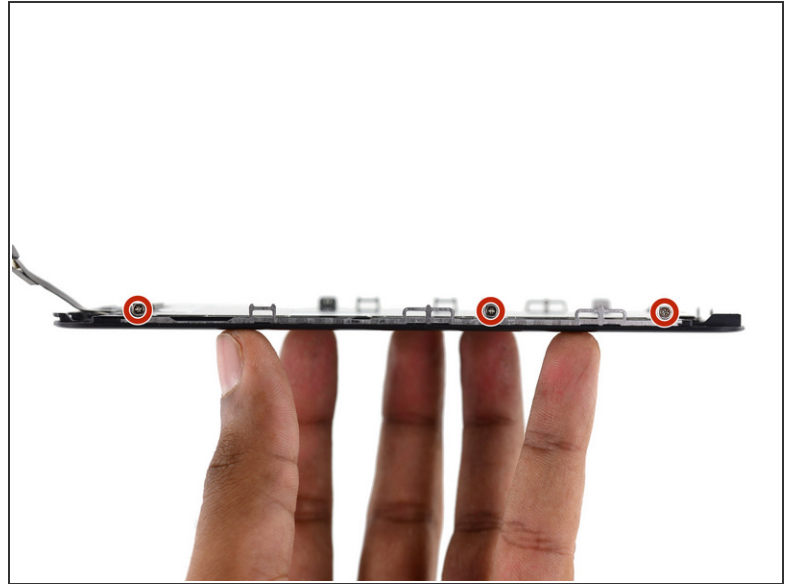
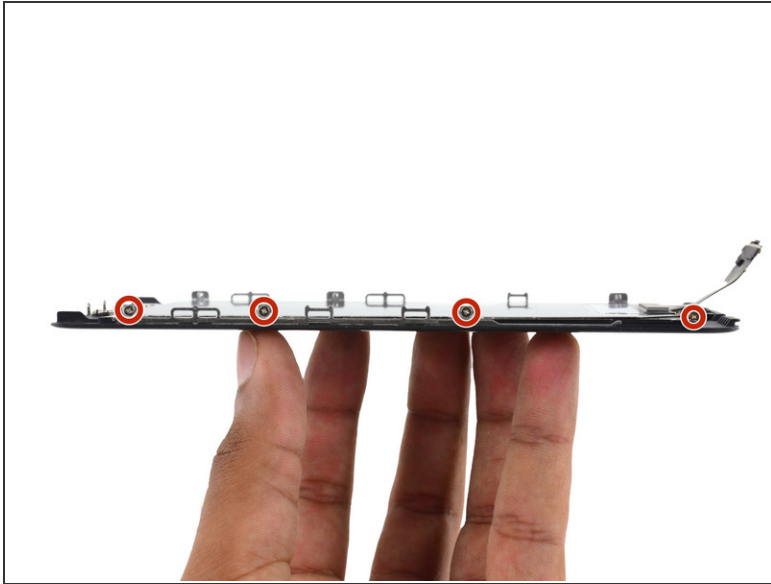
- Use the flat tip of a spudger to lift up the microphone and earpiece gasket.

## Step 35



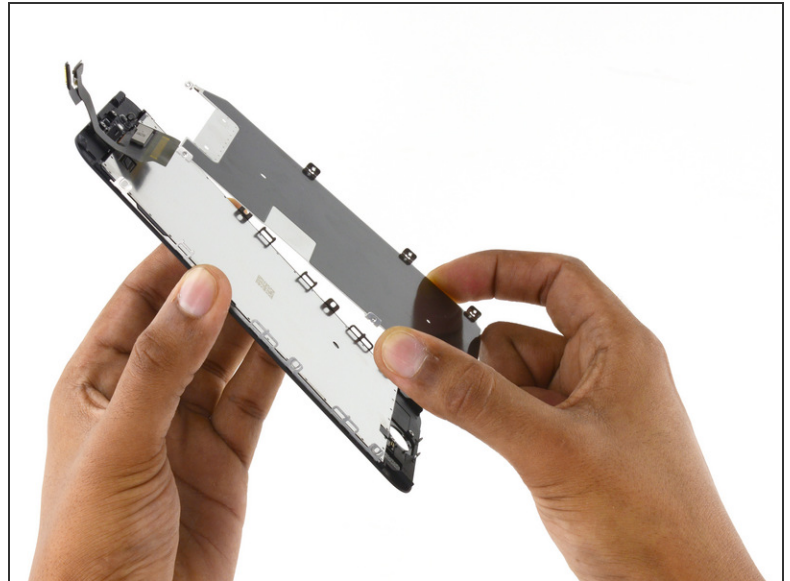
- Remove the FaceTime camera and sensor assembly.

## Step 36 — Display EMI Shield



- Remove the seven 1.5 mm Phillips screws holding the display EMI shield in place.
  - ⓘ The screw on the far right in the first photo is recessed about 1.8 cm from the edge of the display.

## Step 37



- Remove the EMI shield from the front panel.

To reassemble your device, follow these instructions in reverse order.

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